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AMPTIAC Provides Armor Development Support to US Forces in Iraq

AMPTIAC supported the US Army's 101st Airborne Division in Iraq by providing engineering analysis and design suggestions to provide help in reducing troop vulnerability to enemy fire. AMPTIAC scientists and engineers worked with the US Army Corps of Engineers to develop novel armoring schemes to increase the in-theater survivability of various structures against rocket and mortar fire. Armoring schemes explored various low-cost, highly effective techniques that could employ local labor and be implemented within a short period of time.

Continued on Story 1

AMPTIAC Supports DOD Initiative to Reduce Cost of Corrosion

AMPTIAC was tasked by the Honorable Michael W. Wynne, Acting Under Secretary of Defense for Acquisition, Technology and Logistics (and the Department's Corrosion Executive) to publish a special issue of its journal, the AMPTIAC Quarterly, which focused on the Department's new congressionally directed corrosion policy and how the services are rising to meet the technical challenges of beating corrosion. The purpose of the issue was to raise awareness within the defense and material communities about the impact of corrosion on defense assets (estimated at upwards of $20B annually). The issue debuted at the biennially-held Tri-Service Corrosion Conference in Las Vegas, Nevada, where it was distributed to all conference attendees.

Continued on Story 2

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AMPTIAC Supports DOD Initiative to Reduce Cost of Corrosion(continued)

AMPTIAC is an active member of the Corrosion Prevention and Control Integrated Product Team (CPCIPT), the primary advisory group and implementation arm of the new DOD Office of Corrosion Policy and Oversight. The CPCIPT's primary mission is to put in place the technologies, guidance, training, and other resources needed to implement the new Corrosion Policy and significantly reduce the DOD's corrosion-related costs. AMPTIAC provides support to the CPCIPT in corrosion science, information technology, communication and outreach, and training; by preparing training course materials, having published a special issue of our quarterly journal, contributing to the DOD Corrosion website, and by writing planning and guidance documentation to help the services and programs comply with policy requirements.

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AMPTIAC Provides Armor Development Support to US Forces in Iraq (continued)

Availability, weight, and ease of fabrication were key factors in the development of feasible concepts. Numerous concepts were explored using combinations of easily attainable commodity materials that were combined in such a fashion as to defeat a given threat within the defined environment. The final concept that was developed by AMPTIAC consisted of armor panels that were faced with sheet metal and filled with a foam core for adequate standoff. These panels could be easily fabricated on site using local labor with easily attainable sheet metal materials and the foam cores could be produced on site with foaming agents to reduce shipping volume and costs. AMPTIAC was informed by the Army Corps of Engineers that this final armoring concept was chosen as one of two schemes to be pursued for testing and possible implementation.

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